384D-16-22-2-32 bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence has been optimized for very high efficiency, having a maximum of only sixteen transitions per quarter. A second order filter is recommended.

H5 = -0.000349623

H15 = 0

H3 = 0

H13 = -0.00082362

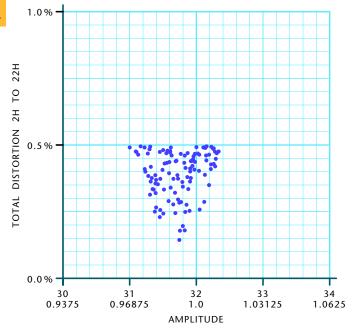
Level: 32 of 32
Bits in word: 384
Bits in quarter: 96

Controlled harmonics: 2 through 22nd Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 16
Graph max distortion: 0.5%
Report max distortion: 0.25%

Verify zero third: no

Delta friendly: yes



H11 = 0.000280136

H19 = 0.000349778 Hex: \$C007 007F 01FF 1FFC FFFF FFFF

```
Amplitude: 0.994821 Distortion: 0.249% Transitions: 10 litter: -16.5%
                                                  Mat: [[0 2][16 0][16 5][29 3][35 8][48 14][64 16][80 16]]
H3 = 0
                H5 = -0.000993163
                                H7 = 0.000831746
                                                H9 = 0
                                                              H11 = 0.000141239
                                                H19 = -0.00187581 Hex: $C000 F807 1FE0 FFFC FFFF FFFF
H13 = -0.000389841
                H15 = 0
                                H17 = -0.000931985
Amplitude: 0.984505 Distortion: 0.243% Transitions: 10 Jitter: -49.5%
                                                   Mat: [[0 3][16 0][16 3][26 6][38 7][48 13][64 16][80 16]]
H3 = 0
                H5 = -0.000533346
                                H7 = -0.0013101
                                                H9 = 0
                                                              H11 = 0.000546902
                                                H19 = -0.000185796 Hex: $E000 E03F 03F8 FFF8 FFFF FFFF
H13 = -0.00152385
                H15 = 0
                                H17 = 0.00113836
Amplitude: 0.994564 Distortion: 0.18% Transitions: 10 litter: -17.3%
                                                   Mat: [[0 2][15 1][16 3][27 5][37 8][49 13][64 16][80 16]]
H3 = 0
                H5 = -0.0012428
                                H7 = 0.000460905
                                                H9 = 0
                                                              H11 = 0.00034733
H13 = -0.000416063
                H15 = 0
                                H17 = -0.000344566
                                                H19 = -0.00105039 Hex: $C001 E01F 07F8 7FFC FFFF FFFF
Amplitude: 0.982839 Distortion: 0.23% Transitions: 10 litter: -54.9%
                                                   Mat: [[0 3][15 1][16 2][26 6][38 8][49 12][64 16][80 16]]
H7 = -0.00146219
H3 = 0
                H5 = -5.58317e-05
                                                H9 = 0
                                                              H11 = 0.00113277
H13 = -0.000982078
                H15 = 0
                                H17 = 0.000928574
                                                H19 = -0.000204059 Hex: $E001 C03F 03FC 7FF8 FFFF FFFF
Amplitude: 0.992346 Distortion: 0.179% Transitions: 10 Jitter: -24.4%
                                                   Mat: [[0 2][14 2][16 2][27 5][37 9][50 12][64 16][80 16]]
H5 = -0.000687627
                                H7 = 0.000189031
                                                H9 = 0
                                                              H11 = 0.00114267
H13 = 0.000284643
                H15 = 0
                                H17 = -0.000552739
                                                H19 = -0.00100291 Hex: $C003 C01F 07FC 3FFC FFFF FFFF
Amplitude: 0.993712 Distortion: 0.196% Transitions: 10 litter: -20.1%
                                                   Mat: [[0 2][14 2][16 1][25 7][39 8][50 12][64 16][80 16]]
H5 = -0.000600481
                                H7 = 0.000988709
                                                              H11 = -0.000358174
H3 = 0
H13 = -0.00130174
                H15 = 0
                                H17 = 0.000829694
                                                H19 = 0.000153147 Hex: $C003 807F 01FE 3FFC FFFF FFFF
                                                   Mat: [[0 2][13 3][16 1][27 5][37 10][51 11][64 16][80 16]]
Amplitude: 0.990138 Distortion: 0.245% Transitions: 10 Jitter: -31.5%
H5 = -0.000278164
                                H7 = -0.000232957
                                                              H11 = 0.00198101
H3 = 0
                                                H9 = 0
H13 = 0.000949365
                H15 = 0
                                H17 = -0.000619177
                                                H19 = -0.000814524 Hex: $C007 801F 07FE 1FFC FFFF FFFF
               Distortion: 0.144% Transitions: 10 Jitter: -25.4%
                                                   Mat: [[0 2][13 3][16 0][25 7][39 9][51 11][64 16][80 16]]
Amplitude: 0.99206
```

H9 = 0

H7 = 0.000618472

H17 = 0.000837751

384D-16-22-2-24

bits - trans - harms - filt - level

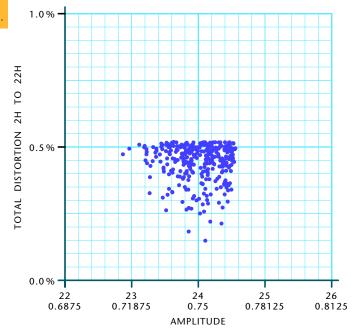
SUMMARY: This delta-friendly sequence has been optimized for very high efficiency, having a maximum of only sixteen transitions per quarter. A second order filter is recommended.

Level: 24 of 32 Bits in word: 384 Bits in quarter: 96

Controlled harmonics: 2 through 22nd Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 16 Graph max distortion: 0.52% Report max distortion: 0.26%

Verify zero third: no Delta friendly: yes



Amplitude: 0.743986 Distortion: 0.183% Transitions: 14 Jitter: -14.4% Mat: [[2 2][14 0][18 3][27 3][37 6][50 10][66 12][82 12]]

H5 = 0.000430052H3 = 0H7 = 0.00107947H9 = 0H11 = 0.000252982

H13 = -0.00100243H15 = 0H17 = 0.000757726H19 = -0.000616898 Hex: \$3000 381C 07E0 3FF0 3FFC 3FFC

Amplitude: 0.757472 Distortion: 0.22% Transitions: 14 Jitter: 17.9% Mat: [[2 1][13 0][17 3][27 3][37 7][51 10][66 11][81 13]]

H3 = 0H5 = -0.00179294H7 = -8.05578e-05H9 = 0H11 = -0.000224471H15 = 0

H13 = -0.000429833 H19 = -0.000571943 Hex: \$2000 701C 07F0 1FF8 3FF8 7FFC H17 = -0.00102966

Distortion: 0.258% Transitions: 16 Jitter: 8.6% Mat: [[2 1][12 1][17 2][27 3][37 8][52 9][66 11][81 13]] Amplitude: 0.753601

H3 = 0H5 = -0.000696109H7 = -0.000867917H9 = 0H11 = 0.00157484

H17 = -0.00131859H13 = 0.00105108H15 = 0H19 = -0.000331638 Hex: \$2008 601C 07F8 0FF8 3FF8 7FFC

Amplitude: 0.754409 Distortion: 0.149% Transitions: 16 Jitter: 10.5% Mat: [[2 1][12 1][17 1][25 5][39 7][52 9][66 11][81 13]]

H7 = 0.000172117H3 = 0H5 = -0.000326736H9 = 0H11 = -0.000170801

H13 = -0.000802051H15 = 0H17 = 0.00036881H19 = 0.00113187 Hex: \$2008 407C 01FC 0FF8 3FF8 7FFC

Mat: [[2 1][11 2][17 0][25 5][39 8][53 8][66 11][81 13]] Amplitude: 0.751113 Distortion: 0.251% Transitions: 14 Jitter: 2.6%

H5 = 0.000183168H7 = -0.000933632H11 = 0.00146044H9 = 0

H13 = 0.000326628H15 = 0H17 = 0.000522966H19 = 0.00170585Hex: \$2018 007C 01FE 07F8 3FF8 7FFC

Amplitude: 0.764509 Distortion: 0.213% Transitions: 14 Jitter: 34.8% Mat: [[2 0][11 1][16 2][26 4][38 8][53 9][66 10][80 14]]

H3 = 0H5 = 0.00026402H7 = 0.000203639H11 = 0.000248888

H13 = 0.000521544H15 = 0H17 = -0.0018863H19 = 0.000752898 Hex: \$0010 C03C 03FC 07FC 3FF0 FFFC

384D-16-22-2-16 bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence has been optimized for very high efficiency, having a maximum of only sixteen transitions per quarter. A second order filter is recommended.

Level: 16 of 32

Bits in word: 384

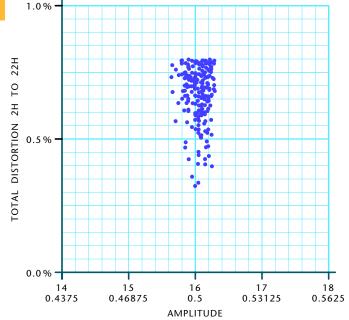
Bits in quarter: 96

Controlled harmonics: 2 through 22nd Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 16 Graph max distortion: 0.8% Report max distortion: 0.4%

Verify zero third: no

Delta friendly: yes



H3 = 0 H5 = 0.00169166 H7 = 0.00188853 H9 = 0 H11 = 0.00217038

 $H13 = 0.00131559 \qquad H15 = 0 \qquad \qquad H17 = 0.000284595 \qquad H19 = -7.93804 \\ e-05 \quad Hex: \$0810 \ 0830 \ 03E0 \ 07E0 \ 0FF0 \ 0FF0 \\ OFF0 \quad 0FF0 \quad 0FF0 \ 0FF$

Amplitude: 0.499834 Distortion: 0.324% Transitions: 14 Jitter: -0.2% Mat: [[4 1][11 1][20 0][25 3][39 5][53 6][68 8][84 8]]

Amplitude: 0.515492 Distortion: 0.398% Transitions: 12 Jitter: 24.7% Mat: [[4 0][11 0][19 2][26 2][38 5][53 7][68 7][83 9]]

H13 = -0.00136562 H15 = 0 H17 = -0.00206141 H19 = 0.000193285 Hex: \$0000 1830 03E0 07F0 0FE0 1FF0

384D-16-22-2-10 bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence has been optimized for very high efficiency, having a maximum of only sixteen transitions per quarter. A second order filter is recommended.

Level: 10 of 32 Bits in word: 384

Controlled harmonics: 2 through 22nd Filter: 2nd order Butterworth, F = 2.0

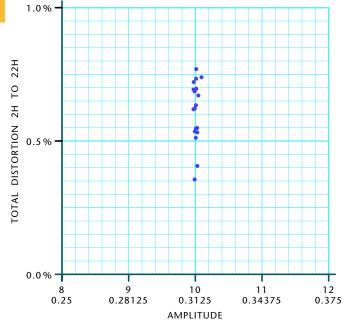
Maximum transitions: 16 Graph max distortion: 0.8% Report max distortion: 0.6%

Verify zero third: no Delta friendly: yes

H13 = 0.000678429

H15 = 0

Bits in quarter: 96



H19 = -0.00080044 Hex: \$0020 0060 01C0 03C0 03E0 03E0

Mat: [[5 1][10 0][22 1][26 1][38 3][54 4][69 5][86 5]] Amplitude: 0.311513 Distortion: 0.356% Transitions: 14 litter: -0.9%

H3 = 0H5 = -0.000197506H7 = 0.00136239H9 = 0H11 = -0.00170554

H13 = 0.00260368H15 = 0H17 = 0.00105505H19 = 5.84731e-05 Hex: \$0400 0220 0380 03C0 07C0 03E0

Amplitude: 0.313216 Distortion: 0.512% Transitions: 12 Jitter: 0.7% Mat: [[5 1][10 0][22 0][25 2][39 3][54 4][69 5][86 5]]

H3 = 0H5 = -0.0037317H7 = -0.000596084H9 = 0H11 = -0.00143124

H19 = 0.00096877H13 = 0.0023663H15 = 0H17 = 0.00183597Hex: \$0400 0060 01C0 03C0 07C0 03E0

Amplitude: 0.315326 Distortion: 0.549% Transitions: 12 litter: 2.8% Mat: [[5 0][9 1][22 0][25 2][39 3][55 4][69 5][86 5]]

H3 = 0H5 = -0.001232H7 = 0.00340072H9 = 0H11 = -0.00221571

H13 = 0.00342015H15 = 0H17 = 0.000382042H19 = 0.00061513 Hex: \$0040 0060 01C0 01E0 07C0 03E0

Amplitude: 0.311621 Distortion: 0.536% Transitions: 14 litter: -0.8% Mat: [[6 1][11 0][21 1][25 1][39 3][53 4][70 5][85 5]]

H3 = 0H5 = 0.000593383H7 = 0.00151921H9 = 0H11 = 0.00447877

H13 = -0.00215642H15 = 0H17 = 0.00117978H19 = 0.000203354 Hex: \$0200 0440 01C0 0780 03E0 07C0

Mat: [[6 0][10 1][21 0][24 2][40 3][54 4][70 5][85 5]] Amplitude: 0.315445 Distortion: 0.532% Transitions: 12 Jitter: 2.9%

H5 = -0.00066334H7 = 0.00367089H11 = 0.00308965H9 = 0

H13 = -0.00207132H15 = 0H17 = 0.000577557H19 = 0.000504559 Hex: \$0020 00C0 00E0 03C0 03E0 07C0

Amplitude: 0.313364 Distortion: 0.547% Transitions: 12 litter: 0.8% Mat: [[6 1][11 0][22 0][25 2][39 3][53 4][70 5][86 5]]

H3 = 0H5 = 0.0015547H7 = -0.0037364H9 = 0H11 = 0.00182825

H13 = 4.78001e-05H15 = 0H17 = 0.00319782H19 = -3.1352e-05Hex: \$0200 0060 01C0 0780 03E0 03E0

Amplitude: 0.315488 Distortion: 0.407% Transitions: 12 litter: 2.9% Mat: [[6 0][10 1][22 0][25 2][39 3][54 4][70 5][86 5]]

H5 = 0.00357284H7 = 9.43619e-05 H9 = 0H11 = 0.000580203H3 = 0

H17 = 0.001558

384D-16-22-2-00

bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence has been optimized for very high efficiency, having a maximum of only sixteen transitions per quarter. A second order filter is recommended.

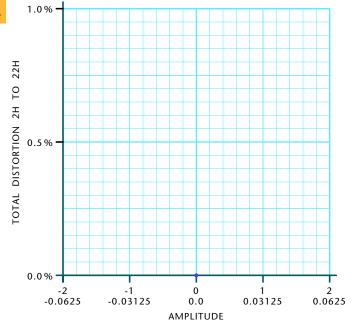
Level: 0 of 32
Bits in word: 384
Bits in quarter: 96

Controlled harmonics: 2 through 22nd Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 16
Graph max distortion: 1.0%
Report max distortion: 1.0%

Verify zero third: no

Delta friendly: yes



H3 = 0H13 = 0 H5 = 0H15 = 0 H7 = 0 H17 = 0

H9 = 0H19 = 0

Hex: \$0000 0000 0000 0000 0000 0000